

Rec'd PCT/PTO 07 OCT 2005

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appln. No: 10/527,633  
Applicants: Martyn Vincent Twigg et al.  
Filed: Herewith  
Title: PROCESS FOR TREATING COMPRESSION IGNITION  
ENGINE EXHAUST GAS  
TC/A.U.:  
Examiner:

#4

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO/SB/08A and PTO/SB/08B submitted herewith. A copy of the references listed on the PTO/SB/08A and PTO/SB/08B, other than U.S. patents, is enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

German Patent No. 41 17 364 A1 is not in the English language, but an English translation thereof is attached to the copy of the reference submitted herewith.

Japanese Patent No. 5-59937 is not in the English language, but an English translation thereof is attached to the copy of the reference submitted herewith.

Japanese Patent Nos. 7-251073, 8-14029, 2002-129937, and 2002-45702 are not in the English language, but English abstracts thereof are attached to each of the references submitted herewith.

This Information Disclosure Statement is being filed along with the response to the Notification of Missing Requirements in this application. Therefore, no fee or statement is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,

  
Christopher R. Lewis, Reg. No. 36,201  
Attorney for Applicants

CRL/lrb  
Enclosures: PTO/SB/08A and PTO/SB/08B  
Copy of twenty-one (21) references

Dated: October 7, 2005

P.O. Box 980  
Valley Forge, PA 19482-0980  
(610) 407-0700

The Commissioner for Patents is hereby  
authorized to charge payment to Deposit  
Account No. 18-0350 of any fees associated  
with this communication.

**EXPRESS MAIL**

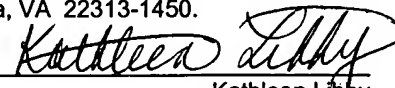
Mailing Label Number:

**EV 723658157 US**

Date of Deposit:

**October 7, 2005**

I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Kathleen Libby

Substitute for Form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

SHEET 1 of 2

**Complete if Known**

Application Number	10/527,633
Filing Date	Herewith
First Named Inventor	Martyn Vincent Twigg
Art Unit	
Examiner Name	
Attorney Docket No.	JMYT-348US

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	US-6,293,096	09-25-2001	Khair et al.	
	2	US-2002/0048542-A1	04-25-2002	Deeba et al.	
	3	US-2002/0053202-A1	05-09-2002	Akama et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	4	EP-0 341 832-A2	11-15-1989	Johnson Matthey PLC		<input type="checkbox"/>
	5	EP-0 560 991-A1	09-22-1993	Toyota Jidosha Kabushiki Kaisha		<input type="checkbox"/>
	6	EP-0 602 865-A1	06-22-1994	Johnson Matthey PLC		
	7	EP-0 613 714-A2	09-07-1994	Toyota Jidosha Kabushiki Kaisha		<input type="checkbox"/>
	8	EP-0 758 713-A1	02-19-1997	Toyota Jidosha Kabushiki Kaisha		<input type="checkbox"/>
	9	EP-0 786 284-A1	07-30-1997	Ford Motor Co.		<input type="checkbox"/>
	10	EP-1 180 390-A1	02-20-2002	Hitachi, Ltd.		<input type="checkbox"/>
	11	DE-41 17 364-A1	12-03-1992	Doduco GmbH + Co. Dr. Eugen Dürwächter		<input type="checkbox"/>
	12	JP-5-59937	03-09-1993	Hitachi, Ltd.		<input type="checkbox"/>
	13	JP-7-251073-A	10-03-1995	Toyota Motor Corp; Catalder Ind. Co.		<input type="checkbox"/>
	14	JP-8-14029	01-16-1996	Toyota Motor Corp.		<input type="checkbox"/>
	15	JP-2002-129937	05-09-2002	Nissan Diesel Motor Co. Ltd.		<input type="checkbox"/>
	16	JP-2002-045702	02-12-2002	Cataler Corp.		<input type="checkbox"/>
	17	WO-94/22564	10-13-1994	Engelhard Corp.		<input type="checkbox"/>
	18	WO-95/00235	01-05-1995	Engelhard Corp.		<input type="checkbox"/>
	19	WO-96/39576	12-12-1996	Johnson Matthey PLC		<input type="checkbox"/>
	20	WO-00/28196	05-18-2000	Ceryx Inc.		<input type="checkbox"/>
	21	WO-00/29726	05-25-2000	Engelhard Corp.		<input type="checkbox"/>
	22	WO-00/59611	10-12-2000	Engelhard Corp.		<input type="checkbox"/>
	23	WO-01/74476-A1	10-11-2001	Engelhard Corp.		<input type="checkbox"/>

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for Form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**SHEET 2 of 2****Complete if Known**

Application Number	10/527,633
Filing Date	Herewith
First Named Inventor	Martyn Vincent Twigg
Art Unit	
Examiner Name	
Attorney Docket No.	JMYT-348US

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	24	Yasushi Mase et al., "Nissan's New Multivalve DI Diesel Engine Series," SAE Technical Paper Series, Paper No. 981039, presented at the International Congress and Exposition, Detroit, Michigan, February 23-26, 1998.	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

**SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.